7. HEALTH FACILITIES

7.1 Clinics

The existence of one health clinic, type C2, is reported in the whole survey area. SCA support the mentioned clinic, and pay all administration and other expenses including staff salary, materials and etc. The existed clinic has building (see Tables 7.1, 7.2 and Appendix K).

Table 7.1: Health facilities

Clinic				Number of staff					
	Type			Doctors		M.H.W		Nurses	
Number	C1	C2	C3	Male	Female	Male	Female	Male	Female
1	0	1	0	2	0	1	0	6	0

Building		Activities		Average	EPI introduced	
Yes	No	D/W	H/D	Patient/day	Yes	N
1	0	6	8	35	1	0

No. of villages surveyed: 69

M.H.W = Medical health worker
D/W = Days/week
H/D = Hours/day

This clinic is open for 6 days a week and works 8 hours/day. An average of 35 patients receive medical treatment per day. The main diseases reported in the surveyed area were cholera, cancer, diarrhoea, dysentery, fever, flue, malaria, leishmaniosis, measles, obstetrics, pneumonia, stomach-ache, T.B, typhoid, skin disease, kidney disease, cough, diabetes, hepatitis, paralysis, polio, typhoid etc.

Table 7.2: Clinics funding sources

Type of Clinic	Funding sources			
	Salary		Material	
	SCA	ARC	SCA	ARC
C1	0	0	0	0
C2	1	0	1	0
C3	0	0	0	0

No. of villages surveyed: 69

A total of 9 medical and supporting staff are busy in the existed clinic. The team comprised of two male doctors, 6 male nurses and one male MHW.

The majority (53%) of the villages, without clinic, located in a distance less than 10 kms from the health clinic, followed by 34% of villages have a distance of 11 to 20 kms, 13% of the villages are located in a distance of 21 to 30 kms, from the health clinic (see Table 7.3 and Appendix K1). The distance marked above 30 kms describes the location of the village from the center of the province (Jalalabad city).

Table 7.3: Distance of the villages from the nearest clinic (km)

No. of villages without clinic	% of villages in each range		
	<=10	11-20	21-30
68	53	34	13

No. of villages surveyed: 69

7.2 Pharmacies

There are 7 private pharmacies in the survey area. These pharmacy centers were located in only 7 villages and the remaining 62 villages had no medical store facilities. Out of the 62 villages, without pharmacy center, 29% of the villages located in a distance of 5 kms or less than 5 kms from the nearest medical store, 34% of the villages located at a distance between 6 to 10 kms, 16% remain in a distance of 11 to 15 kms, 21% located in a distance of more than 15 kms from the nearest pharmacy (see Tables 7.4, 7.5. and Appendices L and L1).

Table 7.4: Pharmacies

Number of pharmacies	
Private	Public
7	0

No. of villages surveyed: 69

During interviews with households, it was discovered that the villager mostly rely upon the medical facilities which are available in Jalalabad city, therefore the distance marked above 30 kms is the distance of the villages from Jalalabad.

Table 7.5: Distance of the villages from the nearest pharmacy (km)

No. of villages without pharmacy	% of villages in each range			
	<=5	6-10	11-15	>15
62	29	34	16	21

No. of villages surveyed: 69

8. EDUCATION

A total of 6 primary and 2 secondary schools for boys were operating in the survey area. Based on the survey data, a total of 2,050 boys were attending schools classes. A total of 57 male teachers were engaged to teach the students in the classes (see Table 8.1 and Appendix M).

Table 8.1: Functioning schools

Number of functioning schools									
Boys				Girls				No. of teachers	
	Public				Public				
Home	Primary	Secondary	No. of students	Home	Primary	Secondary	No. of students	Male	Female
0	6	2	2050	0	0	0	0	57	0

No. of villages surveyed: 69

Of 8 public schools operating in the survey area, only 4 schools had buildings and the other 4 schools were without buildings. Students were attending classes under trees and/or walls of the destroyed school buildings, where they could find shadow in order to protect themselves from the direct sunshine.
Government was supporting all 8 schools including staff salary and education material (see Table 8.2 and Appendix M).

Table 8.2: Education material, building and funding sources

Number of villages reported											
Education material		Building		Name of funding sources							
				Salary				Material			
Yes	No	Yes	No	Govt	ARC	SCA	Community	Govt	ARC	SCA	Community
8	0	4	4	8	0	0	0	8	0	0	0

No. of villages surveyed: 69

9. DAMAGED INFRASTRUCTURES

A total of 3,340 house were estimated in the survey area, out of that 1,219 were unaffected; 1,016 damaged and 1,105 houses were completely destroyed. People ranked reconstruction of house as priority number one (see Table 9.1 and Appendices N and O).

Table 9.1: Damaged infrastructures

Infrastructures	Number of structures			Priority ranking for rehabilitation
	Unaffected	Damaged	Completely destroyed	
House	1219	1016	1105	1
Health clinic	1	0	0	5
School	4	0	3	3
Drinking water supply scheme	1	1	0	4
Wells	34	26	29	2

No. of villages surveyed: 69

The buildings of the health clinic and four schools were unaffected, while buildings of 3 schools were completely destroyed.

Only two drinking water supply schemes have been found in the survey area of which one was unaffected and the other was recorded as damaged structure. Wells are other main drinking water source, according to the survey a total of 89 wells have been recorded, out of that only 34 were in working condition, 26 damaged and 29 has been completely destroyed.

Interviewing with inhabitants of the survey area revealed that the reconstruction and rehabilitation of different type of structures were the immediate demand of the people. Demand have been prioritized as per needs of inhabitants. Priority number one was found to be reconstruction of the damaged or destroyed houses, second priority is construction of the well, third priority is construction of school building, fourth priority is construction of drinking water scheme and construction of health clinic is reported as fifth priority number of the villagers.

10. UN AGENCIES AND NGO ACTIVITIES

A total of 9 UN Agencies and other NGOs have worked in the surveyed villages of Hesarak district. For their names and activities see Appendix P.

11. APPENDICES

APPENDIX A

SURVEY QUESTIONNAIRE

MADERA/DACAAR /GAA BASELINE DATA SURVEY FORM

Date: ______________ Province: ______________

Enumerator's code: ______________ District : ______________

Number of people in meeting: ______________ Main village: ______________

Number of active speakers: ______________ Sub village : ______________

I- POPULATION:

Time	Households* not native to the village	Returnee households in the village	Total number of households in the village	Households in			Total households
				Pakistan	Iran	Afghanistan	
Present							
Before the War							

* One household is defined as a group of people sharing cooking pot.

II- LAND TENURE:

Time	Irrigated land during one year (jerib)	Rainfed land during one year (jerib)	Households owning land (owners)	Households not owning land (Tenants)	Households owning & renting land (Owner cum Tenants)	Total households
Present						
Before the War						

III- LIVESTOCK:

Time	% of households Owning animals	Total number of animals						Total number of oxen
		Cattle	Goat	Sheep	Donkey	Horse	Other	
Present								
Before the War								

IV- IRRIGATION INFRASTRUCTURE:

a. Source of irrigation: **1.** ________________ **2.** __________________ **3.** __________________ **4.** ___________________

b. Is the irrigation system fully operational at present ? Yes No

If No, how could you solve its problem ?

1. Construction of intake Yes No
2. Reconstruction of karez Yes No
3. Lining of water course Yes No
4. Maintenance of water course Yes No
5. Construction of other canal structures Yes No
6. Maintenance of karez Yes No
7. Other (Specify): ____________________

Between these problems, which one is the most important? ___________

V- OTHER INFRASTRUCTURES:

1. ROAD:

Is there any road leading to the village? Yes No

If Yes, what type of road? __________

A- Road usable by simple pick-up or car
B- Road usable by 4WD vehicles
C- Mule track

What is the condition of the road? __________

A- Good
B- Fairly Good
C- Bad

2. DRINKING WATER SUPPLY:

Time	Source of drinking water					No. of private wells		No. of public wells		Diesel water pump
	Stream	Canal	Karez	Spring	Pipe Water	Deep	Shallow	Deep	Shallow	
Present										
Before the War										

VI- HEALTH FACILITIES:

Is there any clinic in the village ? Yes No If **Yes**, ask the following questions from the clinic incharge.
If **No**, how far is the nearest clinic to the village ? _______ (km)

Time	Health Facility		No. of doctors		No. of MHW		No. of nurses		Fund. sor.		Building		Activity		Average	EPI introduced	
	No.	Type	M	F	M	F	M	F	S	Mat.	Yes	No	D/W	H/D	patient/day	Yes	No
Present																	
Before the War																	

Type= **C1, C2, C3** MHW=Medical Health Worker M=Male F=Female
Fund. sor.=Funding source S=Salary Mat.=Material D/W=Day per Week H/D=Hour per Day

Major health problems:

1. ______________ **2.** ________________ **3.** ________________ **4.** ________________ **5.** ________________

Is there any pharmacy in the village ? Yes No If **Yes**, ask the following question :

Number of pharmacy: ______ Type of pharmacy: Private Public If **No**, how far is the nearest pharmacy to the village ? _______ (km)

VII- EDUCATION:

Time	No. of functioning boys schools			No. of students	No. of functioning girls school			No. of students	No. of teachers	
	Home	Public			Home	Public			Male	Female
		No.	Type			No.	Type			
Present										
Before the War										

Type = Primary / Secondary

1. INTRODUCTION

1.1 Description of the Survey Area

A map of the approximate boundaries of the survey shows that the survey area located in the far western part of Nangarhar Province with a total of about 642 square kilometers. Hesarak district is bounded to the north by Sarobi district (Kabul), to the east by Sherzad district (Nangarhar), to the west by Khak-i-Jabar district (Kabul), to the south by Azra district (Logar). Hesarak has about 64 villages, 18 of which have more than 500 inhabitant. Much of the land in this area is mountainous especially in the west and the south, but the east slopes down to a high plain.

Hesarak district located in 34:15'00"N latitude and 69:59'00"E longitude[1] . The elevation of the center of the district from the sea level is 1,600 meters, and the area remains relatively cooler than Jalalabad city during the summer seasons.

From 1979 until 1989, the control of Hesarak area by Afghan and Soviet armies was challenged by resistance forces. A decade of bombing, rocket attacks, and ground fighting caused massive refugee exodus. UNIDATA Origins Survey records, total population was 19,954 of which 16,099 were refugee in Pakistan and 3,855 were reported to be inside.[2]

According to the Central Statistics Office (CSO), the adjusted population of the area in 1979 was 17,680. In May 1989, DCAR estimated that 23,300 refugees from Hesarak were living in Pakistan. An agency working in the area in late 1989, estimated approximately 12,000 people were living in Hesarak then[3].

ACBAR report, March 1992, the total population of Hesarak district estimated 21,414 people, out of that 3,919 households recorded as refugee in Pakistan. Hesarak is inhabited mainly by the pushtun Shinwari tribe, although many others are also represented[4].

The main crops in Hesarak district are wheat, maize, mung bean, read bean, pea, vegetable (onion, tomatoes, potatoes, carrot, turnip), fruit (walnut, apples, pears,

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[1] *A Provincial Gazetteer of Afghanistan, Volume II, PP 567-570, Afghan Demographic Studies, Central Statistics Office, Feb. 1975.*

[2] *UNIDATA, Population Estimated, By Province, District, April 1991, P. 23.*

[3] *UNHCR Background Report, Nangarhar Province, Sep. 1989, P. 23.*

[4] *ACBAR Report, Nangarhar Province, March 1992, P. 5.*

VII- EDUCATION: (Cont...)

Time	Education material		Building		Funding source	
	Yes	No	Yes	No	Salary	Material
Present						
Before the War						

VIII- DAMAGED INFRASTRUCTURES:

Infrastructures	Number of structures			Priority ranking for rehabilitation 1= (most urgent) 5= (less urgent)
	Unaffected	Damaged	Completely destroyed	
Houses				
Health clinic				
School				
Drinking Water Supply scheme				
Wells				

IX- UN AGENCIES & NGO ACTIVITIES:

Are there any NGO working in this village at present or during the past five years? Yes No

If Yes, list their names and type of activities:

Name of UN/NGO	Field of activities
1. ____________	____
2. ____________	____
3. ____________	____
4. ____________	____
5. ____________	____

APPENDICES B-P

SURVEY RESULTS AT VILLAGE LEVEL

Appendix B: List of villages, households, interviewees and active speakers in Hesarak district

S/N	Main village	Sub village	Number of: Households	People in meeting	Active speakers
1	Abi Zangani	Gulab Khel	20	4	2
2	Abi Zangani	Jamal Khel	4	2	1
3	Abi Zangani	Kafar Khel	8	3	2
4	Abi Zangani	Lawar Khel	60	20	5
5	Abi Zangani	Mohd Amin Khel	4	4	3
6	Abi Zangani	Ozba Khel	10	6	3
7	Abi Zangani	Qadar Khel	49	10	2
8	Abi Zangani	Sharif Khel	14	15	3
9	Abi Zangani	Shinwari	10	4	3
10	Abi Zangani	Wati	30	20	5
11	Alam Khel		100	29	3
12	Alamkas		40	16	2
13	Ali Khel		18	14	2
14	Bahawlay		55	16	3
15	Bar Kolalay		10	8	2
16	Chartut		80	30	4
17	Chinzai		100	36	4
18	Chorchang		30	20	2
19	Dagyan		180	33	3
20	Dando Chartot		80	26	2
21	Doaw		45	20	4
22	Doubi Kalay		20	12	3
23	Gagiza	Karim Khel	36	13	3
24	Galay		22	15	3
25	Ganjo Khel		40	20	3
26	Garay		10	8	1
27	Gazak		56	24	3
28	Ghoaegeh	Ali Sher	60	22	4
29	Ghogez	Alam Khel	45	24	5
30	Ghogez	Sure Kalay	110	26	4
31	Ghwagiza	Adam Khel	30	20	2
32	Ghwagiza	Miagan	35	18	2
33	Gola Khel		50	23	3
34	Jaw Kan	Durali Khel	35	12	3
35	Jaw Kan	Khair Abad	60	30	2
36	Jaw Kan	Khanano Kalay	20	12	2
37	Jaw Kan	Nargosey	108	40	3
38	Jaw Kan	Shinwari	50	28	2
39	Jaw Kan	Shom Kan (Shikhan)	180	40	2
40	Jokan	Arab Khel	25	10	3
41	Jokan	Ghazi Qala	30	20	3

Appendix B: List of villages, households, interviewees and active speakers in Hesarak district (Cont...)

S/N	Main village	Sub village	Number of: Households	People in meeting	Active speakers
42	Kaday		45	22	3
43	Khanger		50	18	3
44	Khomar Khel		15	10	2
45	Kok Darah		50	21	4
46	Kuz Kolala		22	18	3
47	Lagagr		150	45	4
48	Lajgar	Ghondai Kalay	55	20	5
49	Langar Khel		45	20	2
50	Langar Khel	Jabay Kalay	10	8	2
51	Mani		6	4	1
52	Mayan Khel		15	10	3
53	Miagan		25	12	3
54	Miasahib Kala		40	21	2
55	Mohammadi		50	25	2
56	Naser Khel		40	22	3
57	Parjena		40	19	4
58	Ragha		67	22	4
59	Seyaw Bala		30	18	2
60	Seyaw Payan		200	35	5
61	Sorondu Kalay		100	30	3
62	Teray		20	12	2
63	Tori Khel		39	18	3
64	Towda China		16	10	2
65	Yaghi Band		20	12	2
66	Zarif Khel		40	15	5
67	Zarif Khel	Hasan Kac	35	18	3
68	Zarif Khel	Mossa Ghonday	45	25	3
69	Zayarat Garay		26	18	2

Appendix C: Population and refugee status in Hesarak district

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Abi Zangani	Gulab Khel	0		20		20	0		40		0		40
Abi Zangani	Jamal Khel	3		4		4	0		150		0		150
Abi Zangani	Kafar Khel	0	More	8		8	6	Less	20		0		26
Abi Zangani	Lawar Khel	0		50		60	0		40		0		40
Abi Zangani	Mohd Amin Khel	0	More	4		4	0		32		0		32
Abi Zangani	Ozba Khel	0		10		10	0		70		0		70
Abi Zangani	Qadar Khel	1	More	48		49	7	More	250		0		257
Abi Zangani	Sharif Khel	0		14		14	2		48		0		50
Abi Zangani	Shinwari	0		10		10	3	Less	9		0		12
Abi Zangani	Wati	0		30		30	30		220		0		250
Alam Khel		5	Same	200		100	4		50		0		54
Alamkas		5	Same	20		40	0		20		0		20
Ali Khel		0		2		18	0		23		0		23
Bahawlay		7	Less	20		55	5	More	15		0		20
Bar Kolalay		3	More	10		10	0		0		0		0
Chartut		5	Less	50		80	4	More	20		0		24
Chinzai		0		50		100	10	Less	30		0		40
Chorchang		0		10		30	0		50	Less	0		50
Dagyan		40	Less	150		180	6	More	80	Less	0		86
Dando Chartot		6	Less	70		80	8	More	30	Less	0		38
Doaw		0		45		45	0		10		0		10
Doubi Kalay		3	Less	20		20	5	More	35	Less	0		40
Gagiza	Karim Khel	0		20		36	2	Same	30		0		32
Galay		0		9		22	5	Same	90		0		95
Ganjo Khel		7	Less	15		40	3	More	12	Less	0		15

Appendix C: Population and refugee status in Hesarak district (Cont...)

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Garay		0		10		10	0		25		0		25
Gazak		0		50		56	3		10		0		13
Ghoaegeh	Ali Sher	0		40		60	5		20		0		25
Ghogez	Alam Khel	5	Less	15		45	5		50	Less	0		55
Ghogez	Sure Kalay	10	Same	80		110	10		100		0		110
Ghwagiza	Adam Khel	0		26		30	0		17		0		17
Ghwagiza	Miagan	0		20		35	10		20		0		30
Gola Khel		4	Less	10		50	5		10		0		15
Jaw Kan	Durali Khel	5	Less	30		35	3		20		0		23
Jaw Kan	Khair Abad	0		15		60	30	Less	15		0		45
Jaw Kan	Khanano Kalay	6	Less	20		20	5	More	15	Less	0		20
Jaw Kan	Nargosey	3	Less	100		108	10	More	80	Less	0		90
Jaw Kan	Shinwari	0		10		50	0		12	Less	0		12
Jaw Kan	Shom Kan (Shikhan)	0		100		180	5	Less	50		0		55
Jokan	Arab Khel	6	More	20		25	0		95		0		95
Jokan	Ghazi Qala	1	Same	29		30	20	Same	30		0		50
Kaday		0		30		45	4		20		0		24
Khanger		2	Less	5		50	2	More	2		0		4
Khomar Khel		0		15		15	0		45		0		45
Kok Darah		4	Less	39		50	2	Same	50		0		52
Kuz Kolala		0		22		22	0		50		0		50
Lagagr		2	Less	130		150	10		300	Less	0		310
Lajgar	Ghondai Kalay	5	Less	25		55	5	Same	70	Less	0		75
Langar Khel		4	More	10		45	5		20		0		25

Appendix C: Population and refugee status in Hesarak district (Cont...)

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Langar Khel	Jabay Kalay	1	More	2		10	0		5		0		5
Mani		2		6		6	0		30		0		30
Mayan Khel		2	Less	11		15	1		20		0		21
Miagan		4	More	10		25	0		15		0		15
Miasahib Kala		10	Less	20		40	5		20		0		25
Mohammadi		0		30		50	0		100		0		100
Naser Khel		10	Less	20		40	0		30		0		30
Parjena		3	Same	10		40	5	More	20		0		25
Ragha		3	More	15		67	6		35		0		41
Seyaw Bala		2	Less	15		30	5		30	Less	0		35
Seyaw Payan		10	Less	85		200	20	Less	80		0		100
Sorondu Kalay		8	Less	20		100	8		60		0		68
Teray		1	Less	20		20	0		7		0		7
Tori Khel		0		10		39	15		15		0		30
Towda China		2		5		16	0		0		0		0
Yaghi Band		5		10		20	0		30		0		30
Zarif Khel		4	Less	35		40	0		25		0		25
Zarif Khel	Hasan Kac	5	Less	15		35	5	More	15		0		20
Zarif Khel	Mossa Ghonday	0		15		45	5	Less	10		0		15
Zayarat Garay		0		10		26	0		20		0		20

No. of villages surveyed: 69

Appendix D: Land tenure in Hesarak district

		Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Abi Zangani	Gulab Khel	150	Same	0	More	5	More	0		15	Less	20
Abi Zangani	Jamal Khel	70	Same	0		0		0		4	More	4
Abi Zangani	Kafar Khel	20	Same	0		1	More	0		7	Less	8
Abi Zangani	Lawar Khel	80	Same	0		30	More	0		30	Less	60
Abi Zangani	Mohd Amin Khel	80	More	0		0		0		4	More	4
Abi Zangani	Ozba Khel	40	Same	0		2	More	0		8	Less	10
Abi Zangani	Qadar Khel	60	Same	5	Same	0		0		48	More	48
Abi Zangani	Sharif Khel	35	More	0		2	More	0		11	Less	13
Abi Zangani	Shinwari	20	Same	0		8	More	0		2		10
Abi Zangani	Wati	100	Same	0		4	More	1		25	Less	30
Alam Khel		500	Same	0		40	Less	5	Less	45	Same	90
Alamkas		100	Same	0		20	Same	3	Same	15	More	38
Ali Khel		250	Same	0		18	Same	0		0		18
Bahawlay		100	More	0		25	Less	5	Same	17	Less	47
Bar Kolalay		30	Same	0		6	Less	2	Same	2	Same	10
Chartut		200	Same	0		10	Same	15	Less	25	More	50
Chinzai		500	Same	0		15	Same	30	Less	25	Same	70
Chorchang		150	Same	100	Same	15	Same	0		12	Less	27
Dagyan		120	Same	50	Same	140	Less	10	Less	15	Same	165
Dando Chartot		100	Same	0		50	More	6	Less	10	Less	66
Doaw		150	Same	0		20	Same	0		20		40
Doubi Kalay		150	Same	20	Same	5	More	2	Less	10	More	17
Gagiza	Karim Khel	80	Same	0		25	Same	4	Less	5	More	34
Galay		25	Same	140	Less	10	More	2	Same	9	More	21
Ganjo Khel		100	More	0		5	More	7	Less	15	More	27

Appendix D: Land tenure in Hesarak district (Cont...)

Main village	Sub village	Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Garay		140	Same	0		5	More	0		5	More	10
Gazak		100	More	0		35	Less	5	Less	2	Less	42
Ghoaegeh	Ali Sher	80	Same	0		15	Less	5	Less	25	More	45
Ghogez	Alam Khel	160	Same	0		15	More	10	Less	10	Same	35
Ghogez	Sure Kalay	250	Same	30	Same	70	Same	10	Same	10	Less	90
Ghwagiza	Adam Khel	40	Same	0		17	Same	0		13	Less	30
Ghwagiza	Miagan	100	More	0		12	Same	4		13	Same	29
Gola Khel		100	Same	0		30	Same	4	Same	10	Less	44
Jaw Kan	Durali Khel	300	Same	100	Same	5	Less	5	Less	15	More	25
Jaw Kan	Khair Abad	100	Same	80	Same	25	Less	0		10	More	35
Jaw Kan	Khanano Kalay	200	Same	0		2	More	15	Less	0		17
Jaw Kan	Nargosey	150	Same	400	Same	80	Less	0		8	Less	88
Jaw Kan	Shinwari	50	Same	0		2	Same	40	Same	0		42
Jaw Kan	Shom Kan (Shikhan)	200	Same	400	Same	30	Same	5	Less	15	More	50
Jokan	Arab Khel	250	Same	300	Less	10	Same	5	Less	6	Same	21
Jokan	Ghazi Qala	150	Same	200	Same	5	Same	10	Less	15	More	30
Kaday		180	Same	0		23	Same	4	Less	16	Same	43
Khanger		200	Same	250	Same	20	Same	10	Less	15	Same	45
Khomar Khel		100	Same	0		10	More	1	More	3	Less	14
Kok Darah		60	Same	50	Same	10	More	5	More	30	Less	45
Kuz Kolala		50	Same	0		22	More	0		0		22
Lagagr		500	Same	250	Same	100	Same	20	More	20		140
Lajgar	Ghondai Kalay	150	Same	200	Same	25	More	5	Same	15	Less	45
Langar Khel		350	Same	0		23	Same	2		20	Less	45

grape, apricot, plums, etc.). Farming is supplemented with harvesting timber. The typical landholding size is between 6 to 15 Jeribs of land.[5]

Hesarak has a good agricultural land producing a double crop each year. The creek of Spen Ghar (white mountain) irrigate most of the agricultural land in the valley, and the irrigation system is mainly stream based. In 1992 a total of 10,984 jeribs (2,197 ha) of irrigated land and 772 jeribs (154 ha) of rainfed land was under cultivation, and 3,061 farmers were busy to produce the agricultural/livestock production[6].

Eight stream , each 1 km in length of Gor Gori, Mar Sangi, Barjai, Trai Banda, Landi, Bagh, Oti, and Ghalni are mainly the agricultural water source for irrigation in Hesarak district.

The main communication system, in the survey area, is a gravel road linking Surkhrud to Hesark via Khogiani and Sherzad districts. It continue up into Spen Ghar to the steep area of Abi Zangani as far as Cahartuyt on the Hesarak Khawar. From there, one must go by foot over the pass into Logar. One other main transportation rout is the road from Bawli to Hesarak, 25km long. Before the war it was used by commercial traffic. Ghilji and Lajiga are the two main bazar in Hesarak district.

1.2 Objectives

This survey constitutes the first stage in a greater overall scheme. By integrating action in the field this scheme aims to reinstall the IDPs and refugee families and identify the main development problems of the area.

The efforts in this survey have been mainly targeted to villages with regard to population and repatriation, land tenure and agricultural land, livestock, market accessibility, health and education facilities, access to drinking and irrigation water, and situation of damaged infrastructures including public buildings and private houses.

The specific objectives aimed to obtain up-to date and accurate information on the following subjects and their rehabilitation needs:

- To determine the demographic information on current number of households in the villages and potential returnees.

- To provide information about the jerib of arable land, number of household owning and renting land, status of irrigation water sources and ways of their improvement.

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[5] *UNHCR Background Report, __Nangarhar Province__, Data Collection for Afghan Repatriation Project, Sep. 1989 and ACBAR Report, __Nangarhar Province__, March 1992.*

[6] *ACBAR Report, __Nangarhar Province__, March 1992, P. 6.*

Appendix D: Land tenure in Hesarak district (Cont...)

		Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Langar Khel	Jabay Kalay	50	Same	0		6	Same	1	Same	2	Same	9
Mani		100	Same	0		6	More	0		0		6
Mayan Khel		80	Same	0		10	Less	3	Same	0		13
Miagan		250	More	100	Same	12	Less	8	Less	5	Less	25
Miasahib Kala		120	Same	0		35	Same	0	Less	3		38
Mohammadi		600	Same	0		30	More	0		15	Less	45
Naser Khel		400	Same	200	More	20	More	8	Less	6	Same	34
Parjena		230	Same	120	Same	20	Same	7	Same	10	More	37
Ragha		350	Same	0		27	Same	5	Less	32	Same	64
Seyaw Bala		150	Same	300	Same	20	More	2	Same	4	Less	26
Seyaw Payan		300	Same	200	Same	35	Same	10	Less	25	Same	70
Sorondu Kalay		400	Same	0		70	Same	0		20	Less	90
Teray		12	More	0		15	Same	3	Less	0		18
Tori Khel		150	Same	0		5	Same	0		10	More	15
Towda China		50	Same	0		12	Same	2	Less	2	Less	16
Yaghi Band		200	Same	0		15	Same	0		5	Less	20
Zarif Khel		400	Same	150	Same	30	Same	4	Same	3	Less	37
Zarif Khel	Hasan Kac	150	Same	0		15	Less	5	Same	10	More	30
Zarif Khel	Mossa Ghonday	150	Same	0		15	Same	5	Less	20	Less	40
Zayarat Garay		140	Same	0		13	Same	0		7	Same	20

No. of villages surveyed: 69

Appendix E: Livestock ownership in Hesarak district

		% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Abi Zangani	Gulab Khel	100	Same	20	More	340	More	80	More	10	More	0		1	More	6	More
Abi Zangani	Jamal Khel	85	Less	15	More	40	More	0	More	4	More	0		0		4	More
Abi Zangani	Kafar Khel	100	Same	13	More	400	More	0	More	7	More	0		0	More	8	More
Abi Zangani	Lawar Khel	100	Same	120	More	1500	More	100	More	40	More	0		20	More	16	More
Abi Zangani	Mohd Amin Khel	75	More	8	More	60	More	20	More	3	More	2		0		4	More
Abi Zangani	Ozba Khel	70	More	25	More	140	More	30	More	7	More	0		0		12	More
Abi Zangani	Qadar Khel	90	More	40	More	900	More	200	More	30	More	0		0	More	24	More
Abi Zangani	Sharif Khel	92	More	25	More	100	More	30	More	6	More	0		0		6	More
Abi Zangani	Shinwari	70	More	10	More	220	More	5	More	1	More	0		0		2	More
Abi Zangani	Wati	86	Same	60	More	250	More	100	More	15	More	3	More	0		14	More
Alam Khel		95	More	165	More	100	More	30	More	75	Same	0		0		80	Less
Alamkas		92	Same	60	Same	200	Same	150	Less	23	Same	0		0		30	Same
Ali Khel		95	Same	30	Same	70	More	20	Same	10	Same	0		0		18	More
Bahawlay		95	More	120	Same	50	More	60	Same	50	Less	0		0		34	Same
Bar Kolalay		94	More	18	More	5	More	8	More	9	More	0		0		8	Same
Chartut		92	More	150	More	200	More	150	More	50	More	0	More	0		100	
Chinzai		90	More	150	More	130	More	150	More	35	More	3	More	0		120	More
Chorchang		90	More	130	More	1000	More	500	More	30	Same	0		0		60	More
Dagyan		95	More	260	More	250	More	100	More	150	More	0		0		60	More
Dando Chartot		95	More	240	More	200	More	100	More	65	More	0		0		26	More
Doaw		98	Same	85	Same	250	Same	60	Same	30	Same	2	More	0		16	Same
Doubi Kalay		95	More	75	More	100	More	50	More	20	More	0		0		20	More
Gagiza	Karim Khel	80	More	60	Same	40	More	50	Same	25	Same	3	More	0		15	Less
Galay		95	More	30	More	50	More	40	More	16	More	6		0		20	More
Ganjo Khel		89	More	25	Less	10	More	8	More	5	More	2	Less	0		10	More

Appendix E: Livestock ownership in Hesarak district (Cont...)

		% of households owning animals		Total Number of animals												Tatal Number of oxen	
				Cattle		Goat		Sheep		Donkey		Horse		Other			
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Garay		88	More	20	More	40	More	10	More	4	More	0		0		18	More
Gazak		93	More	70	More	180	Less	130	Less	30	Same	4	Same	0		24	Same
Ghoaegeh	Ali Sher	89	More	150	More	55	More	250	More	35	More	2	More	0		24	More
Ghogez	Alam Khel	97	Same	89	More	150	More	200	More	24	More	0	More	0		24	More
Ghogez	Sure Kalay	95	More	150	More	700	More	500	More	80	Same	0		0		90	
Ghwagiza	Adam Khel	80	More	25	Same	100	More	40	More	5	Same	0		3	Less	8	More
Ghwagiza	Miagan	90	More	20	More	80	Same	50	Less	5	Same	0		5	Less	20	More
Gola Khel		98	Same	70	Same	150	More	20	More	30	More	0		0		50	More
Jaw Kan	Durali Khel	85	More	40	More	25	More	130	More	8	More	2	More	0		100	More
Jaw Kan	Khair Abad	95	More	150	More	10	More	15	More	13	More	0		0		40	More
Jaw Kan	Khanano Kalay	80	More	40	More	1000	More	1000	Same	14	Same	10	Less	10	Less	50	More
Jaw Kan	Nargosey	90	More	200	More	400	More	500	More	80	Same	0		0		130	Same
Jaw Kan	Shinwari	95	More	200	More	1000	More	400	More	48	Same	0		40	Less	10	More
Jaw Kan	Shom Kan (Shikhan)	90	Same	180	More	50	More	200	More	20	More	0		0		52	More
Jokan	Arab Khel	95	More	30	More	40	More	50	More	18	More	5	More	0		16	More
Jokan	Ghazi Qala	100	Same	40	More	300	More	200	More	30	More	10	More	0		40	More
Kaday		87	More	54	More	100	Less	0		6	Same	0		0		32	More
Khanger		90	Less	100	Less	120	Same	90	Less	70	Same	5	More	0		40	
Khomar Khel		95	Same	30	Same	100	Same	20	More	10	More	0		0		20	Same
Kok Darah		90	Same	64	More	60	Same	100	More	30	Less	3	More	0		40	Same
Kuz Kolala		95	Same	40	Same	50	Same	10	Same	20	Same	0		0		10	
Lagagr		95	More	300	More	900	More	500	More	120	More	0		15	Less	160	More
Lajgar	Ghondai Kalay	95	More	180	More	80	More	150	More	15	More	4	Less	0		60	
Langar Khel		87	Same	65	Less	210	Same	140	Less	43	Less	1	Less	5	Less	36	More

Appendix E: Livestock ownership in Hesarak district (Cont...)

		% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Langar Khel	Jabay Kalay	98	Same	20	Same	50	Same	10	More	8	Less	0		0		10	Same
Mani		100	Same	15	More	100	Same	20	Same	4	More	0		0		12	More
Mayan Khel		85	More	40	More	50	More	20	Same	10	More	0		0		14	Same
Miagan		85	More	36	Same	50	More	55	Same	18	Same	0		0		24	More
Miasahib Kala		95	Same	60	Same	100	Same	50	Same	30	Same	0		0		40	
Mohammadi		95	Same	75	More	100	More	60	More	30	More	0		0		100	Same
Naser Khel		97	Same	60	Less	30	Same	20	Same	33	Less	0		0		76	Same
Parjena		85	More	60	Same	90	More	50	More	25	More	2	Same	0		18	More
Ragha		100	Same	120	Same	100	More	200	More	50	Same	0		10	Same	78	Less
Seyaw Bala		95	More	170	More	1200	More	200	More	30	More	2	Less	0		100	More
Seyaw Payan		85	More	215	More	85	More	800	More	70	More	5	More	0		100	More
Sorondu Kalay		98	Same	150	Same	300	Same	150	More	60	Same	0		0		76	
Teray		90	Same	40	Same	70	More	10	Same	15	Same	0		0		4	More
Tori Khel		85	More	80	More	20	More	30	More	15	Same	0		0		40	
Towda China		96	Same	20	Same	35	Same	30	Same	15	Same	0		0		8	Same
Yaghi Band		98	Same	50	Same	60	Same	15	Same	15	Same	0		0		18	More
Zarif Khel		90	Same	60	Less	400	Same	200	More	30	Less	3	More	0		70	Less
Zarif Khel	Hasan Kac	95	More	48	More	50	More	800	More	0		0		0		24	
Zarif Khel	Mossa Ghonday	88	More	180	More	12	More	130	More	17	More	0		0		40	
Zayarat Garay		90	More	34	More	150	More	120	Same	30	Same	0		0		20	More

No. of villages surveyed: 69

Appendix F: Sources of irrigation and condition of irrigation system in Hesarak district

Main village	Sub village	Source of irrigation A	B	C	D	Fully operational Yes	No
Abi Zangani	Gulab Khel	Stream	Spring				N
Abi Zangani	Jamal Khel	Stream	Spring				N
Abi Zangani	Kafar Khel	Stream	Spring				N
Abi Zangani	Lawar Khel	Stream	Spring				N
Abi Zangani	Mohd Amin Khel	Stream	Spring				N
Abi Zangani	Ozba Khel	Stream					N
Abi Zangani	Qadar Khel	Stream	Spring				N
Abi Zangani	Sharif Khel	Stream					N
Abi Zangani	Shinwari	Stream	Spring				N
Abi Zangani	Wati	Stream					N
Alam Khel		Stream					N
Alamkas		Spring					N
Ali Khel		Karez					N
Bahawlay		Stream	Karez				N
Bar Kolalay		Karez					N
Chartut		Stream					N
Chinzai		Stream					N
Chorchang		Karez	Stream				N
Dagyan		Stream	Karez				N
Dando Chartot		Stream	Spring				N
Doaw		Stream					N
Doubi Kalay		Karez	Stream				N
Gagiza	Karim Khel	Stream					N
Galay		Karez					N
Ganjo Khel		Stream					N
Garay		Spring					N
Gazak		Karez					N
Ghoaegeh	Ali Sher	Stream					N
Ghogez	Alam Khel	Stream					N
Ghogez	Sure Kalay	Spring	Stream				N
Ghwagiza	Adam Khel	Stream					N
Ghwagiza	Miagan	Stream					N
Gola Khel		Stream					N
Jaw Kan	Durali Khel	Karez	Stream				N
Jaw Kan	Khair Abad	Stream	Karez				N
Jaw Kan	Khanano Kalay	Stream	Spring				N
Jaw Kan	Nargosey	Stream	Spring	Karez			N
Jaw Kan	Shinwari	Stream	Spring				N
Jaw Kan	Shom Kan (Shikhan)	Stream	Karez				N
Jokan	Arab Khel	Stream					N

Appendix F: Sources of irrigation and condition of irrigation system in Hesarak district (Cont...)

Main village	Sub village	Source of irrigation A	B	C	D	Fully operational Yes	No
Jokan	Ghazi Qala	Stream					N
Kaday		Stream					N
Khanger		Stream	Karez				N
Khomar Khel		Spring					N
Kok Darah		Stream					N
Kuz Kolala		Karez					N
Lagagr		Karez	Stream	Spring			N
Lajgar	Ghondai Kalay	Karez	Stream				N
Langar Khel		Stream					N
Langar Khel	Jabay Kalay	Stream					N
Mani		Spring					N
Mayan Khel		Stream					N
Miagan		Stream	Karez				N
Miasahib Kala		Stream					N
Mohammadi		Karez					N
Naser Khel		Spring	Stream	Karez			N
Parjena		Stream	Spring				N
Ragha		Stream					N
Seyaw Bala		Karez					N
Seyaw Payan		Stream	Karez				N
Sorondu Kalay		Stream	Spring				N
Teray		Stream	Spring				N
Tori Khel		Stream					N
Towda China		Karez					N
Yaghi Band		Karez	Spring				N
Zarif Khel		Stream					N
Zarif Khel	Hasan Kac	Stream					N
Zarif Khel	Mossa Ghonday	Stream					N
Zayarat Garay		Spring					N

No. of villages surveyed: 69

Appendix G: Priority ranking for rehabilitation of the irrigation system in Hesarak district

Main village	Sub village	Problems to be solved							The most important problem
		A	B	C	D	E	F	G	
Abi Zangani	Gulab Khel	√		√	√	√			E
Abi Zangani	Jamal Khel	√		√		√			E
Abi Zangani	Kafar Khel	√		√	√	√		√	E
Abi Zangani	Lawar Khel	√		√	√			√	A
Abi Zangani	Mohd Amin Khel	√		√	√			√	A
Abi Zangani	Ozba Khel	√		√	√				A
Abi Zangani	Qadar Khel	√		√		√		√	A
Abi Zangani	Sharif Khel	√		√		√			E
Abi Zangani	Shinwari	√		√	√	√		√	E
Abi Zangani	Wati	√		√	√	√			E
Alam Khel		√		√	√				A
Alamkas				√				√	C
Ali Khel			√				√		B
Bahawlay			√	√					B
Bar Kolalay			√	√				√	G
Chartut		√			√				A
Chinzai		√			√				A
Chorchang		√	√		√				B
Dagyan		√	√				√		B
Dando Chartot		√			√			√	B
Doaw		√							A
Doubi Kalay		√	√				√		B
Gagiza	Karim Khel	√				√			E
Galay			√				√		B
Ganjo Khel		√			√				A
Garay				√				√	G
Gazak			√			√		√	B
Ghoaegeh	Ali Sher	√			√				A
Ghogez	Alam Khel	√			√				A
Ghogez	Sure Kalay	√		√				√	A
Ghwagiza	Adam Khel	√							A
Ghwagiza	Miagan	√		√	√				A
Gola Khel		√		√	√				A
Jaw Kan	Durali Khel	√	√				√		B
Jaw Kan	Khair Abad	√	√				√		A
Jaw Kan	Khanano Kalay	√			√			√	A
Jaw Kan	Nargosey	√	√		√			√	A
Jaw Kan	Shinwari	√			√			√	A
Jaw Kan	Shom Kan (Shikhan)	√	√				√		A
Jokan	Arab Khel	√				√			A

Appendix G: Priority ranking for rehabilitation of the irrigation system in Hesarak district (Cont...)

Main village	Sub village	A	B	C	D	E	F	G	The most important problem
		Problems to be solved							
Jokan	Ghazi Qala	✓				✓			E
Kaday				✓				✓	G
Khanger			✓			✓			B
Khomar Khel								✓	G
Kok Darah		✓				✓			E
Kuz Kolala			✓				✓		B
Lagagr		✓	✓		✓			✓	B
Lajgar	Ghondai Kalay	✓	✓				✓		B
Langar Khel		✓			✓				A
Langar Khel	Jabay Kalay	✓		✓	✓				A
Mani								✓	G
Mayan Khel		✓		✓					A
Miagan		✓	✓				✓	✓	A
Miasahib Kala		✓		✓	✓				A
Mohammadi			✓				✓		B
Naser Khel			✓		✓			✓	B
Parjena		✓				✓			E
Ragha		✓			✓				A
Seyaw Bala			✓				✓		B
Seyaw Payan		✓	✓				✓		A
Sorondu Kalay		✓			✓			✓	A
Teray		✓		✓	✓			✓	A
Tori Khel		✓			✓				A
Towda China			✓			✓			B
Yaghi Band			✓					✓	B
Zarif Khel		✓				✓			E
Zarif Khel	Hasan Kac	✓				✓			A
Zarif Khel	Mossa Ghonday	✓			✓				A
Zayarat Garay				✓				✓	G

No. of villages surveyed: 69

A. Construction of intake
B. Reconstruction of karez
C. Lining of water course
D. Maintenance of water course
E. Construction of of other canal structures
F. Maintenance of karez
G. Others

List of others:

1. Cleaning of karez
2. Cleaning of spring
3. Cleaning of spring/const. pond
4. Cleaning of stream/spring

Appendix H: Type and condition of roads in Hesarak district

Main village	Sub village	Road usable by: Pick-up or car	4WD vehicles	Mule track
Abi Zangani	Gulab Khel		C	
Abi Zangani	Jamal Khel		C	
Abi Zangani	Kafar Khel		C	
Abi Zangani	Lawar Khel		C	
Abi Zangani	Mohd Amin Khel		C	
Abi Zangani	Ozba Khel		C	
Abi Zangani	Qadar Khel		C	
Abi Zangani	Sharif Khel		C	
Abi Zangani	Shinwari		C	
Abi Zangani	Wati		C	
Alam Khel			B	
Alamkas				B
Ali Khel			B	
Bahawlay			B	
Bar Kolalay			C	
Chartut				A
Chinzai				B
Chorchang			B	
Dagyan		B		
Dando Chartot				B
Doaw			C	
Doubi Kalay			B	
Gagiza	Karim Khel		C	
Galay				C
Ganjo Khel		B		
Garay				B
Gazak			C	
Ghoaegeh	Ali Sher		B	
Ghogez	Alam Khel		B	
Ghogez	Sure Kalay		C	
Ghwagiza	Adam Khel		C	
Ghwagiza	Miagan		B	
Gola Khel			C	
Jaw Kan	Durali Khel	B		
Jaw Kan	Khair Abad			C
Jaw Kan	Khanano Kalay			B
Jaw Kan	Nargosey		B	
Jaw Kan	Shinwari			B
Jaw Kan	Shom Kan (Shikhan)			B
Jokan	Arab Khel	B		

Appendix H: Type and condition of roads in Hesarak district (Cont...)

Main village	Sub village	Road usable by: Pick-up or car	4WD vehicles	Mule track
Jokan	Ghazi Qala	B		
Kaday			B	
Khanger		B		
Khomar Khel			C	
Kok Darah			C	
Kuz Kolala			C	
Lagagr			B	
Lajgar	Ghondai Kalay			B
Langar Khel			B	
Langar Khel	Jabay Kalay			B
Mani				B
Mayan Khel			B	
Miagan		B		
Miasahib Kala			B	
Mohammadi				B
Naser Khel			B	
Parjena		B		
Ragha			B	
Seyaw Bala			B	
Seyaw Payan		B		
Sorondu Kalay			C	
Teray			C	
Tori Khel			B	
Towda China			C	
Yaghi Band				B
Zarif Khel		B		
Zarif Khel	Hasan Kac		B	
Zarif Khel	Mossa Ghonday			B
Zayarat Garay				B

No. of villages surveyed: 69

Condition of roads

A-Good
B-Fairly Good
C-Bad

- To asses the number of livestock in the area.
- To provide information on the number of damaged infrastructure and housing condition, access roads, transportation and drinking water sources in the survey area.
- To obtain information on major aspects of health facilities, number of health center and number of health workers, and funding sources.
- To provide information about education institution, number of schools, number of students and teachers.

1.3 Survey Method

A survey questionnaire covering questions related to relevant aspects of village situation was prepared (see Appendix A). All questions were discussed with the enumerators during training.

Four teams of enumerators, two supervisors, one field coordinator, and one survey consultant with adequate surveying experiences took part in training and conducting of the field survey. All 4 teams worked simultaneously in the targeted district. After all targeted villages in one district were surveyed, then the team moved to another district. Each survey team, consisting of one enumerator and one local guide conducted the survey at the village level, and each supervisor was responsible for supervising the field work of two survey teams.

Each survey team used one survey form per village. Almost all villages in the targeted districts were covered. Each village was counted as a survey site. In order to obtain more accurate information, a village with many houses was divided into two or more sub-villages. A village having few houses was added with another village.

From each village a group of 2 to 45 people (included village elders, tribal elders, landowners, and other important and knowledgeable individuals) was gathered for group interview. At least two interviewees were village elders. The number of people in group interview depends upon the population of the villages. The people interviewed were the representatives of different walks of life in the area.

After conduction of interviews, the completed forms were checked, cross-checked and edited for possible correction. Each enumerator carried a notebook to record some important information which is not covered in the questionnaire.

In each survey site, all parts of the questionnaire were filled properly and maps of each survey site were marked according to the instructions. ASU Field Coordinator supervised and monitored the field work of this survey and the performance of

Appendix I: Drinking water sources in Hesarak district

Main village	Sub village	Stream		Canal		Karez		Spring		Pipe Water	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Abi Zangani	Gulab Khel	Y	Same					Y	Same		
Abi Zangani	Jamal Khel	Y	Same					Y	Same		
Abi Zangani	Kafar Khel	Y	Same					Y	Same		
Abi Zangani	Lawar Khel	Y	Same					Y	Same		
Abi Zangani	Mohd Amin Khel	Y	Same					Y	Same		
Abi Zangani	Ozba Khel	Y	Same					Y	Same		
Abi Zangani	Qadar Khel	Y	Same					Y	Same		
Abi Zangani	Sharif Khel	Y	Same					Y	Same		
Abi Zangani	Shinwari	Y	Same					Y	Same		
Abi Zangani	Wati	Y	Same					Y	Same		
Alam Khel		Y	Same								
Alamkas								Y	Same		
Ali Khel						Y	Same				
Bahawlay						Y	Same			Y	Same
Bar Kolalay						Y	Same				
Chartut		Y	Same								
Chinzai		Y	Same			Y	Same				
Chorchang						Y	Same				
Dagyan		Y	Same								
Dando Chartot		Y	Same								
Doaw		Y	Same								
Doubi Kalay		Y	Same			Y	Same				
Gagiza	Karim Khel	Y	Same					Y	Same		
Galay						Y	Same				
Ganjo Khel		Y	Same								

Appendix I: Drinking water sources in Hesarak district (Cont...)

		Stream		Canal		Karez		Spring		Pipe Water	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Garay								Y	Same		
Gazak						Y	Same				
Ghoaegeh	Ali Sher	Y	Same								
Ghogez	Alam Khel	Y	Same					Y	Same		
Ghogez	Sure Kalay	Y	Same					Y	Same		
Ghwagiza	Adam Khel	Y	Same								
Ghwagiza	Miagan	Y	Same								
Gola Khel		Y	Same								
Jaw Kan	Durali Khel	Y	Same			Y	Same				
Jaw Kan	Khair Abad					Y	Same	Y	Same		
Jaw Kan	Khanano Kalay	Y	Same					Y	Same		
Jaw Kan	Nargosey	Y	Same					Y	Same		
Jaw Kan	Shinwari	Y	Same					Y	Same		
Jaw Kan	Shom Kan (Shikhan)	Y	Same								
Jokan	Arab Khel		Same			Y	Same				
Jokan	Ghazi Qala		Same			Y	Same				
Kaday								Y	Same		
Khanger			Same			Y	Same				
Khomar Khel								Y	Same		
Kok Darah		Y	Same					Y	Same		
Kuz Kolala						Y	Same				
Lagagr						Y	Same	Y	Same		
Lajgar	Ghondai Kalay					Y	Same				
Langar Khel		Y	Same								

Appendix I: Drinking water sources in Hesarak district (Cont...)

		Stream		Canal		Karez		Spring		Pipe Water	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Langar Khel	Jabay Kalay	Y	Same								
Mani								Y	Same		
Mayan Khel		Y	Same								
Miagan		Y	Same			Y	Same				
Miasahib Kala		Y	Same								
Mohammadi						Y	Same				
Naser Khel						Y	Same	Y	Same		
Parjena		Y	Same								
Ragha		Y	Same								
Seyaw Bala						Y	Same				
Seyaw Payan		Y	Same			Y	Same				
Sorondu Kalay		Y	Same								
Teray		Y	Same								
Tori Khel		Y	Same								
Towda China						Y	Same				
Yaghi Band						Y	Same	Y	Same		
Zarif Khel		Y	Same								
Zarif Khel	Hasan Kar	Y	Same								
Zarif Khel	Mossa Ghonday	Y	Same								
Zayarat Garay						Y	Same				

No. of villages surveyed: 69

Appendix J: Wells in Hesarak district

		Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Abi Zangani	Gulab Khel	0		0		0		0		0	
Abi Zangani	Jamal Khel	0		0		0		0		0	
Abi Zangani	Kafar Khel	0		0		0		0		0	
Abi Zangani	Lawar Khel	0		0		0		0		0	
Abi Zangani	Mohd Amin Khel	0		0		0		0		0	
Abi Zangani	Ozba Khel	0		0		0		0		0	
Abi Zangani	Qadar Khel	0		0		0		0		0	
Abi Zangani	Sharif Khel	0		0		0		0		0	
Abi Zangani	Shinwari	0		0		0		0		0	
Abi Zangani	Wati	0		0		0		0		0	
Alam Khel		0		2	Same	0		0		0	
Alamkas		0		0		0		0		0	
Ali Khel		0		0		0		0		0	
Bahawlay		0		0		0		0		0	
Bar Kolalay		0		0		0		0		0	
Chartut		0		0		0		10	Less	0	
Chinzai		0		0		0		0		0	
Chorchang		0		0		0		0		0	
Dagyan		0		0		0		0		0	
Dando Chartot		0		0		0		0		0	
Doaw		0		0		0		0		0	
Doubi Kalay		0		0		0		0		0	
Gagiza	Karim Khel	0		0		0		0		0	
Galay		0		0		0		0		0	
Ganjo Khel		0		0		0		0		0	

Appendix J: Wells in Hesarak district (Cont...)

		Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Garay		0		0		0		0		0	
Gazak		0		6	More	0		2	Same	0	
Ghoaegeh	Ali Sher	0		0		0		0		0	
Ghogez	Alam Khel	0		0		0		0		0	
Ghogez	Sure Kalay	0		0		0		0		0	
Ghwagiza	Adam Khel	0		0		0		0		0	
Ghwagiza	Miagan	0		0		0		0		0	
Gola Khel		0		15		0		0		0	
Jaw Kan	Durali Khel	0		0		0		0		0	
Jaw Kan	Khair Abad	0		0		0		0		0	
Jaw Kan	Khanano Kalay	0		1		0		0		0	
Jaw Kan	Nargosey	0		4	Less	0		2	Less	0	
Jaw Kan	Shinwari	0		0		0		0		0	
Jaw Kan	Shom Kan (Shikhan)	0		0		0		0		0	
Jokan	Arab Khel	0		0		0		0		0	
Jokan	Ghazi Qala	0		0		0		0		0	
Keday		0		0		0		0		0	
Khanger		0		4	Less	0		0		0	
Khomar Khel		0		0		0		0		0	
Kok Darah		0		0		0		0		0	
Kuz Kolala		0		8	Same	0		0		0	
Lagagr		0		0		0		1		0	
Lajgar	Ghondai Kalay	0		0		0		0		0	
Langar Khel		0		0		0		0		0	

Appendix J: Wells in Hesarak district (Cont...)

Main village	Sub village	Number of private wells: Deep: Present	Number of private wells: Deep: Before War	Number of private wells: Shallow: Present	Number of private wells: Shallow: Before War	Number of public wells: Deep: Present	Number of public wells: Deep: Before War	Number of public wells: Shallow: Present	Number of public wells: Shallow: Before War	Diesel water pump: Present	Diesel water pump: Before War
Langar Khel	Jabay Kalay	0		3		0		0		0	
Mani		0		0		0		0		0	
Mayan Khel		0		0		0		0		0	
Miagan		0		0		0		0		0	
Miasahib Kala		0		0		0		0		0	
Mohammadi		0		0		0		0		0	
Naser Khel		0		0		0		0		0	
Parjena		0		0		0		0		0	
Ragha		0		10	Less	0		4	More	0	
Seyaw Bala		0		0		0		0		0	
Seyaw Payan		0		4	Less	0		3	Same	0	
Sorondu Kalay		0		0		0		0		0	
Teray		0		0		0		0		0	
Tori Khel		0		0		0		0		0	
Towda China		0		0		0		0		0	
Yaghi Band		0		0		0		0		0	
Zarif Khel		0		10		0		0		0	
Zarif Khel	Hasan Kac	0		0		0		0		0	
Zarif Khel	Mossa Ghonday	0		0		0		0		0	
Zayarat Garay		0		0		0		0		0	

No. of villages surveyed: 69

Appendix K: Clinics in Hesarak district

		No. of clinic		Type of clinic		Number of male doctors		Number of female doctors		Number of male MHW		Number of Female MHW		Number of male nurse		Number of female nurse	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Befor War
Ragha		1		C2		2.		0		1		0		6		0	

No. of villages surveyed: 69

Appendix K: Clinics in Hesarak district (Cont...)

		Funding source						Activity							
		Salary		Material		Building		Day/week		Hour/day		Average Patient/day		EPI introduced	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Ragha		SCA		SCA		Y		6		8		35		Y	

No. of villages surveyed: 69

Appendix K1: Distance of the villages from the nearest clinic in Hesarak district

S/N	Main village	Sub village	Distance (km)
1	Abi Zangani	Gulab Khel	21.0
2	Abi Zangani	Jamal Khel	25.0
3	Abi Zangani	Kafar Khel	22.0
4	Abi Zangani	Lawar Khel	20.0
5	Abi Zangani	Mohd Amin Khel	21.0
6	Abi Zangani	Ozba Khel	24.0
7	Abi Zangani	Qadar Khel	26.0
8	Abi Zangani	Sharif Khel	22.0
9	Abi Zangani	Shinwari	20.0
10	Abi Zangani	Wati	23.0
11	Alam Khel		8.0
12	Alamkas		8.0
13	Ali Khel		4.0
14	Bahawlay		15.0
15	Bar Kolalay		10.0
16	Chartut		4.0
17	Chinzai		5.0
18	Chorchang		15.0
19	Dagyan		3.0
20	Dando Chartot		4.0
21	Doaw		12.0
22	Doubi Kalay		2.0
23	Gagiza	Karim Khel	12.0
24	Galay		6.0
25	Ganjo Khel		1.0
26	Garay		10.0
27	Gazak		15.0
28	Ghoaegeh	Ali Sher	20.0
29	Ghogez	Alam Khel	27.0
30	Ghogez	Sure Kalay	16.0
31	Ghwagiza	Adam Khel	15.0
32	Ghwagiza	Miagan	15.0
33	Gola Khel		4.0
34	Jaw Kan	Durali Khel	11.0
35	Jaw Kan	Khair Abad	15.0
36	Jaw Kan	Khanano Kalay	14.0
37	Jaw Kan	Nargosey	8.0
38	Jaw Kan	Shinwari	15.0
39	Jaw Kan	Shom Kan (Shikhan)	8.0
40	Jokan	Arab Khel	10.0

Appendix K1: Distance of the villages from the nearest clinic in Hesarak district

S/N	Main village	Sub village	Distance (km)
1	Abi Zangani	Gulab Khel	21.0
2	Abi Zangani	Jamal Khel	25.0
3	Abi Zangani	Kafar Khel	22.0
4	Abi Zangani	Lawar Khel	20.0
5	Abi Zangani	Mohd Amin Khel	21.0
6	Abi Zangani	Ozba Khel	24.0
7	Abi Zangani	Qadar Khel	26.0
8	Abi Zangani	Sharif Khel	22.0
9	Abi Zangani	Shinwari	20.0
10	Abi Zangani	Wati	23.0
11	Alam Khel		8.0
12	Alamkas		8.0
13	Ali Khel		4.0
14	Bahawlay		15.0
15	Bar Kolalay		10.0
16	Chartut		4.0
17	Chinzai		5.0
18	Chorchang		15.0
19	Dagyan		3.0
20	Dando Chartot		4.0
21	Doaw		12.0
22	Doubi Kalay		2.0
23	Gagiza	Karim Khel	12.0
24	Galay		6.0
25	Ganjo Khel		1.0
26	Garay		10.0
27	Gazak		15.0
28	Ghoaegeh	Ali Sher	20.0
29	Ghogez	Alam Khel	27.0
30	Ghogez	Sure Kalay	16.0
31	Ghwagiza	Adam Khel	15.0
32	Ghwagiza	Miagan	15.0
33	Gola Khel		4.0
34	Jaw Kan	Durali Khel	11.0
35	Jaw Kan	Khair Abad	15.0
36	Jaw Kan	Khanano Kalay	14.0
37	Jaw Kan	Nargosey	8.0
38	Jaw Kan	Shinwari	15.0
39	Jaw Kan	Shom Kan (Shikhan)	8.0
40	Jokan	Arab Khel	10.0

Appendix K1: Distance of the villages from the nearest clinic in Hesarak district (Cont...)

S/N	Main village	Sub village	Distance (km)
41	Jokan	Ghazi Qala	12.0
42	Kaday		3.0
43	Khanger		8.0
44	Khomar Khel		20.0
45	Kok Darah		16.0
46	Kuz Kolala		8.0
47	Lagagr		15.0
48	Lajgar	Ghondai Kalay	20.0
49	Langar Khel		4.0
50	Langar Khel	Jabay Kalay	2.0
51	Mani		10.0
52	Mayan Khel		2.0
53	Miagan		4.0
54	Miasahib Kala		3.0
55	Mohammadi		8.0
56	Naser Khel		7.0
57	Parjena		6.0
58	Seyaw Bala		6.0
59	Seyaw Payan		5.0
60	Sorondu Kalay		12.0
61	Teray		20.0
62	Tori Khel		5.0
63	Towda China		20.0
64	Yaghi Band		9.0
65	Zarif Khel		5.0
66	Zarif Khel	Hasan Kac	7.0
67	Zarif Khel	Mossa Ghonday	4.0
68	Zayarat Garay		9.0

No. of villages surveyed: 69

supervisors. ASU Survey Consultant carried out quick assessment of the surveyed villages. The field work of this survey was carried out in June 1998.

The report writer debriefed the enumerators at the end of field work. Both the training and debriefing of the enumerators took place in Peshawar.

The results of the survey are presented on district basis. This report is structured for ease of reference with appropriate tables presented with the text and relevant lists (at village level) in Appendices.

1.4 Monitoring Results

In order to verify the gathered information of the survey, a monitoring team checked 10 percent of the collected information of the whole surveyed areas. During the monitoring, it was found that the information about irrigation infrastructures, drinking water supply schemes, health facilities, education and damaged infrastructures were collected accurate and there was no significant error in recorded information. However, there was a difference of 10 to 30 percent in information about population, land tenure and livestock of the surveyed villages. The difference was small in smaller villages, but big in larger villages.

Appendix L: Pharmacies in Hesarak district

Main village	Sub village	Number of pharmacy	
		Private	Public
Chartut		1	0
Chinzai		1	0
Doaw		1	0
Ganjo Khel		1	0
Gola Khel		1	0
Jaw Kan	Khanano Kalay	1	0
Ragha		1	0

No: of villages surveyed: 69

Appendix L1: Distance of the villages from the nearest pharmacy in Hesarak district

S/N	Main village	Sub village	Distance (km)
1	Abi Zangani	Gulab Khel	21.0
2	Abi Zangani	Jamal Khel	25.0
3	Abi Zangani	Kafar Khel	22.0
4	Abi Zangani	Lawar Khel	20.0
5	Abi Zangani	Mohd Amin Khel	21.0
6	Abi Zangani	Ozba Khel	24.0
7	Abi Zangani	Qadar Khel	26.0
8	Abi Zangani	Sharif Khel	22.0
9	Abi Zangani	Shinwari	20.0
10	Abi Zangani	Wati	23.0
11	Alam Khel		8.0
12	Alamkas		8.0
13	Ali Khel		4.0
14	Bahawlay		15.0
15	Bar Kolalay		10.0
16	Chorchang		15.0
17	Dagyan		3.0
18	Dando Chartot		4.0
19	Doubi Kalay		2.0
20	Gagiza	Karim Khel	12.0
21	Galay		6.0
22	Garay		10.0
23	Gazak		15.0
24	Ghoaegeh	Ali Sher	20.0
25	Ghogez	Alam Khel	27.0
26	Ghogez	Sure Kalay	16.0
27	Ghwagiza	Adam Khel	15.0
28	Ghwagiza	Miagan	15.0
29	Jaw Kan	Durali Khel	11.0
30	Jaw Kan	Khair Abad	15.0
31	Jaw Kan	Nargosey	8.0
32	Jaw Kan	Shinwari	15.0
33	Jaw Kan	Shom Kan (Shikhan)	8.0
34	Jokan	Arab Khel	10.0
35	Jokan	Ghazi Qala	12.0
36	Kaday		3.0
37	Khanger		8.0
38	Khomar Khel		20.0
39	Kok Darah		16.0
40	Kuz Kolala		8.0

Appendix L1: Distance of the villages from the nearest pharmacy in Hesarak district (Cont...)

S/N	Main village	Sub village	Distance (km)
41	Lagagr		15.0
42	Lajgar	Ghondai Kalay	20.0
43	Langar Khel		4.0
44	Langar Khel	Jabay Kalay	2.0
45	Mani		10.0
46	Mayan Khel		2.0
47	Miagan		4.0
48	Miasahib Kala		3.0
49	Mohammadi		8.0
50	Naser Khel		7.0
51	Parjena		6.0
52	Seyaw Bala		6.0
53	Seyaw Payan		5.0
54	Sorondu Kalay		12.0
55	Teray		20.0
56	Tori Khel		5.0
57	Towda China		20.0
58	Yaghi Band		9.0
59	Zarif Khel		5.0
60	Zarif Khel	Hasan Kac	7.0
61	Zarif Khel	Mossa Ghonday	4.0
62	Zayarat Garay		9.0

No. of villages surveyed: 69

Appendix M: Schools in Hesarak district

		Number of functioning boys schools								Number of functioning girls schools							
				Public								Public					
		Home		Number		Type		No. of students		Home		Number		Type		No. of students	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Jaw Kan	Khanano Kalay	0		1		P		100		0		0				0	
Jaw Kan	Nargosey	0		1	Same	S	S	200	Same	0		0				0	
Jaw Kan	Shom Kan (Shikhan)	0		1		P		200		0		0				0	
Lagagr		0		1	Same	P	P	150	Same	0		0				0	
Miagan		0		1		P		250		0		0				0	
Ragha		0		1	Same	S	S	400	Same	0		0				0	
Seyaw Payan		0		1		P		250		0		0				0	
Sorondu Kalay		0		1	Same	P	P	500	Less	0		0				0	

No. of villages surveyed: 69

P (Primary) , S (Secondary

Appendix M: Schools in Hesarak district (Cont...)

		Number of teachers				Education material		Building		Funding source			
		Male		Female						Salary		Material	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Jaw Kan	Khanano Kalay	2		0		Y		N		GOVT.		GOVT.	
Jaw Kan	Nargosey	10	Less	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Jaw Kan	Shom Kan (Shikhan)	5		0		Y		N		GOVT.		GOVT.	
Lagagr		6	Less	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Miagan		8		0		Y		N		GOVT.		GOVT.	
Ragha		15	Same	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Seyaw Payan		5		0		Y	Y	Y	N	GOVT.	GOVT.	GOVT.	GOVT.
Sorondu Kalay		6		0		Y	Y	N	N	GOVT.	GOVT.	GOVT.	GOVT.

No. of villages surveyed: 69

Appendix N: Damaged infrastructures in Hesarak district

Main village	Sub village	Number of Houses			Priority ranking for rehabi-litation	No. of Health clinic			Priority ranking for rehabi-litation	No. of School			Priority ranking for rehabi-litation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Abi Zangani	Gulab Khel	0	20	30	1	0	0	0	0	0	0	0	0
Abi Zangani	Jamal Khel	1	5	80	1	0	0	0	0	0	0	0	0
Abi Zangani	Kafar Khel	0	5	25	1	0	0	0	0	0	0	0	0
Abi Zangani	Lawar Khel	0	30	40	1	0	0	0	0	0	0	0	0
Abi Zangani	Mohd Amin Khel	0	4	20	1	0	0	0	0	0	0	0	0
Abi Zangani	Ozba Khel	3	8	50	1	0	0	0	0	0	0	0	0
Abi Zangani	Qadar Khel	20	20	160	1	0	0	0	0	0	0	0	0
Abi Zangani	Sharif Khel	0	20	20	1	0	0	0	0	0	0	0	0
Abi Zangani	Shinwari	0	5	10	1	0	0	0	0	0	0	0	0
Abi Zangani	Wati	5	50	120	1	0	0	0	0	0	0	0	0
Alam Khel		40	25	25	1	0	0	0	0	0	0	0	0
Alamkas		20	7	10	1	0	0	0	0	0	0	0	0
Ali Khel		5	6	3	1	0	0	0	0	0	0	0	0
Bahawlay		35	5	5	1	0	0	0	0	0	0	1	2
Bar Kolalay		4	2	2	1	0	0	0	0	0	0	0	0
Chartut		5	25	15	2	0	0	0	0	0	0	0	0
Chinzai		15	25	20	1	0	0	0	0	0	0	0	0
Chorchang		10	20	20	1	0	0	0	0	0	0	0	0
Dagyan		50	50	25	1	0	0	0	0	0	0	0	0
Dando Chartot		30	30	5	1	0	0	0	0	0	0	0	0
Doaw		20	10	0	1	0	0	0	0	0	0	0	0
Doubi Kalay		0	15	18	1	0	0	0	0	0	0	0	0
Gagiza	Karim Khel	30	20	1	1	0	0	0	0	0	0	0	0
Galay		10	30	10	1	0	0	0	0	0	0	0	0
Ganjo Khel		10	13	7	1	0	0	0	0	0	0	0	0

Appendix N: Damaged infrastructures in Hesarak district (Cont...)

Main village	Sub village	Number of Houses			Priority ranking for rehabi-litation	No. of Health clinic			Priority ranking for rehabi-litation	No. of School			Priority ranking for rehabi-litation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Garay		8	2	2	1	0	0	0	0	0	0	0	0
Gazak		40	5	3	1	0	0	0	0	0	0	0	0
Ghoaegeh	Ali Sher	10	25	20	1	0	0	0	0	0	0	0	0
Ghogez	Alam Khel	15	25	17	1	0	0	0	0	0	0	0	0
Ghogez	Sure Kalay	70	20	10	1	0	0	0	0	0	0	0	0
Ghwagiza	Adam Khel	15	5	8	1	0	0	0	0	0	0	0	0
Ghwagiza	Miagan	15	8	7	1	0	0	0	0	0	0	0	0
Gola Khel		20	10	3	1	0	0	0	0	0	0	0	0
Jaw Kan	Durali Khel	5	15	10	1	0	0	0	0	0	0	0	0
Jaw Kan	Khair Abad	10	15	15	1	0	0	0	0	0	0	0	0
Jaw Kan	Khanano Kalay	4	10	5	1	0	0	0	0	0	0	0	0
Jaw Kan	Nargosey	50	30	25	2	0	0	0	0	1	0	0	0
Jaw Kan	Shinwari	30	2	3	1	0	0	0	0	0	0	0	0
Jaw Kan	Shom Kan (Shikhan)	24	10	6	1	0	0	0	0	0	0	0	0
Jokan	Arab Khel	15	30	5	1	0	0	0	0	0	0	0	0
Jokan	Ghazi Qala	15	30	0	1	0	0	0	0	0	0	0	0
Kaday		30	5	10	1	0	0	0	0	0	0	0	0
Khanger		30	5	3	1	0	0	0	0	0	0	0	0
Khomar Khel		25	5	5	1	0	0	0	0	0	0	0	0
Kok Darah		30	30	5	1	0	0	0	0	0	0	0	0
Kuz Kolala		15	5	5	1	0	0	0	0	0	0	0	0
Lagagr		75	50	50	1	0	0	0	0	1	0	0	0
Lajgar	Ghondai Kalay	3	25	20	1	0	0	0	0	0	0	0	0
Langar Khel		22	8	12	1	0	0	0	0	0	0	0	0

Appendix N: Damaged infrastructures in Hesarak district (Cont...)

		Number of Houses			Priority ranking for rehabi-litation	No. of Health clinic			Priority ranking for rehabi-litation	No. of School			Priority ranking for rehabi-litation
Main village	Sub village	Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Langar Khel	Jabay Kalay	4	4	0	1	0	0	0	0	0	0	0	0
Mani		6	6	6	1	0	0	0	0	0	0	0	0
Mayan Khel		6	5	4	1	0	0	0	0	0	0	0	0
Miagan		15	3	4	1	0	0	0	0	0	0	1	2
Miasahib Kala		10	18	0	1	0	0	0	0	0	0	0	0
Mohammadi		30	10	10	1	0	0	0	0	0	0	0	0
Naser Khel		10	10	15	1	0	0	0	0	0	0	1	2
Parjena		25	4	1	1	0	0	0	0	0	0	0	0
Ragha		40	10	10	1	1	0	0	0	1	0	0	0
Seyaw Bala		10	15	5	1	0	0	0	0	0	0	0	0
Seyaw Payan		25	30	20	2	0	0	0	0	1	0	0	0
Sorondu Kalay		60	20	0	1	0	0	0	0	0	0	0	0
Teray		6	7	0	1	0	0	0	0	0	0	0	0
Tori Khel		15	10	5	1	0	0	0	0	0	0	0	0
Towda China		12	0	0	0	0	0	0	0	0	0	0	0
Yaghi Band		10	5	5	1	0	0	0	0	0	0	0	0
Zarif Khel		20	5	20	1	0	0	0	0	0	0	0	0
Zarif Khel	Hasan Kac	5	15	15	1	0	0	0	0	0	0	0	0
Zarif Khel	Mossa Ghonday	15	10	5	1	0	0	0	0	0	0	0	0
Zayarat Garay		6	4	10	1	0	0	0	0	0	0	0	0

No. of villages surveyed: 69

Appendix O: Damaged water supply infrastructures in Hesarak district

		No. of drinking water supply scheme			Priority ranking for rehabi-litatior	No. of Wells			Priority ranking for rehabi-litation
Main village	Sub village	Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Abi Zangani	Gulab Khel	0	0	0	0	0	0	0	0
Abi Zangani	Jamal Khel	0	0	0	0	0	0	0	0
Abi Zangani	Kafar Khel	0	0	0	0	0	0	0	0
Abi Zangani	Lawar Khel	0	0	0	0	0	0	0	0
Abi Zangani	Mohd Amin Khel	0	0	0	0	0	0	0	0
Abi Zangani	Ozba Khel	0	0	0	0	0	0	0	0
Abi Zangani	Qadar Khel	0	0	0	0	0	0	0	0
Abi Zangani	Sharif Khel	0	0	0	0	0	0	0	0
Abi Zangani	Shinwari	0	0	0	0	0	0	0	0
Abi Zangani	Wati	0	0	0	0	0	0	0	0
Alam Khel		0	0	0	0	1	0	1	0
Alamkas		0	0	0	0	0	0	0	0
Ali Khel		0	0	0	0	0	0	0	0
Bahawlay		1	0	0	0	0	0	0	2
Bar Kolalay		0	0	0	0	0	0	0	0
Chartut		0	0	0	0	4	3	3	0
Chinzai		0	0	0	0	0	0	0	0
Chorchang		0	0	0	0	0	0	0	0
Dagyan		0	0	0	0	0	0	0	0
Dando Chartot		0	0	0	0	0	0	0	0
Doaw		0	0	0	0	0	0	0	0
Doubi Kalay		0	0	0	0	0	0	0	0
Gagiza	Karim Khel	0	0	0	0	0	0	0	0
Galay		0	0	0	0	0	0	0	0
Ganjo Khel		0	0	0	0	0	0	0	0
Garay		0	0	0	0	0	0	0	0
Gazak		0	0	0	0	4	2	2	0
Ghoaegeh	Ali Sher	0	0	0	0	0	0	0	0
Ghogez	Alam Khel	0	0	0	0	0	0	0	0
Ghogez	Sure Kalay	0	0	0	0	0	0	0	0
Ghwagiza	Adam Khel	0	0	0	0	0	0	0	0
Ghwagiza	Miagan	0	0	0	0	0	0	0	0
Gola Khel		0	0	0	0	10	5	0	0
Jaw Kan	Durali Khel	0	0	0	0	0	0	0	0
Jaw Kan	Khair Abad	0	1	0	0	0	0	0	0
Jaw Kan	Khanano Kalay	0	0	0	0	0	0	1	0
Jaw Kan	Nargosey	0	0	0	0	1	3	2	0

Appendix O: Damaged water supply infrastructures in Hesarak district (Cont...)

Main village	Sub village	No. of drinking water supply scheme			Priority ranking for rehabi-litation	No. of Wells			Priority ranking for rehabi-litation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Jaw Kan	Shinwari	0	0	0	0	0	0	0	0
Jaw Kan	Shom Kan (Shikhan)	0	0	0	0	0	0	0	0
Jokan	Arab Khel	0	0	0	0	0	0	0	0
Jokan	Ghazi Qala	0	0	0	0	0	0	0	0
Kaday		0	0	0	0	0	0	0	0
Khanger		0	0	0	0	3	1	0	0
Khomar Khel		0	0	0	0	0	0	0	0
Kok Darah		0	0	0	0	0	0	0	0
Kuz Kolala		0	0	0	0	3	0	5	0
Lagagr		0	0	0	0	0	1	0	0
Lajgar	Ghondai Kalay	0	0	0	0	0	0	0	0
Langar Khel		0	0	0	0	0	0	0	0
Langar Khel	Jabay Kalay	0	0	0	0	0	3	0	0
Mani		0	0	0	0	0	0	0	0
Mayan Khel		0	0	0	0	0	0	0	0
Miagan		0	0	0	0	0	0	0	0
Miasahib Kala		0	0	0	0	0	0	0	2
Mohammadi		0	0	0	0	0	0	0	0
Naser Khel		0	0	0	0	0	0	0	0
Parjena		0	0	0	0	0	0	0	2
Ragha		0	0	0	0	0	0	0	0
Seyaw Bala		0	0	0	0	5	6	3	0
Seyaw Payan		0	0	0	0	0	0	0	0
Sorondu Kalay		0	0	0	0	3	2	2	0
Teray		0	0	0	0	0	0	0	0
Tori Khel		0	0	0	0	0	0	0	0
Towda China		0	0	0	0	0	0	0	0
Yaghi Band		0	0	0	0	0	0	0	0
Zarif Khel		0	0	0	0	0	0	0	0
Zarif Khel	Hasan Kac	0	0	0	0	0	0	10	0
Zarif Khel	Mossa Ghonday	0	0	0	0	0	0	0	0
Zayarat Garay		0	0	0	0	0	0	0	0

No. of villages surveyed: 69

2. POPULATION AND REPATRIATION

2.1 Population

Based on the survey, the totality of households living in 69 villages of Heasarak district are 3,265 households. The average number of people per household is estimated at 8, thus the total population of the survey area is estimated 26,120 (see Table 2.1 and Appendix C).

Table 2.1: Population and refugee status

Number of households in the district					Refugee		
Not native	Returnees	Never Displaced/refugee	Total	Displaced	Pakistan	Iran	Total
214	2104	947	3265	314	3067	0	3381

No. of villages surveyed: 69

2.2 Repatriation

A total of 2,104 households (16,832 persons) have returned to the survey area, during the last 8 years or since the withdrawal of the Soviet Army from Afghanistan. Another 947 households have never been displaced or refugee, while 214 households from other districts have been settled to this district. A total of 3,067 households were still living in refugee camps of Pakistan, and 314 households were still displaced inside Afghanistan (see Table 2.1 and Appendix C).

The total number of people in the survey area at the end of 1989 was 23,300 people[7], which grew to 26,248 persons in June 1998. The district still remains as refugee potential area, because the survey data figured out that around 51% of the inhabitant or 3,381 households (27,048 persons) are either internally displaced or refugee in Pakistan.

The surveying took place during the harvesting period and at the peak farming season in Hesarak district. The beautiful weather and pollution free environment with cool air is an encouraging factor for many people to adopt seasonal immigration to the Hesarak district and surrounding areas, therefore the data estimates 214 households (1,712 individuals) from other parts of Afghanistan in the district at the surveying period. It was not possible to specify from where these displaced households have come.

[7] UNHCR Background Report, Nangarhar Province, 1989, P. 29.

Appendix P: NGO activity in Hesarak district

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
1	Abi Zangani	Jamal Khel	UNKNOWN	26								
2	Abi Zangani	Kafar Khel	UNKNOWN	26								
3	Abi Zangani	Lawar Khel	UNKNOWN	26								
4	Abi Zangani	Mohd Amin Khel	UNKNOWN	26								
5	Abi Zangani	Qadar Khel	UNKNOWN	26								
6	Abi Zangani	Shinwari	UNKNOWN	26								
7	Abi Zangani	Wati	UNKNOWN	26								
8	Alam Khel		SCA	26								
9	Alamkas		UNICEF	26	MDC	29						
10	Ali Khel		UNICEF	26								
11	Bahawlay		UNICEF	26								
12	Bar Kolalay		UNICEF	26								
13	Chartut		SCA	26	GAF	8						
14	Chinzai		SCA	26	GAF	8						
15	Chorchang		SCA	26								
16	Dagyan		SCA	8	MCPA	23	DACAAR	12				
17	Dando Chartot		SCA	26	GAF	8						
18	Doaw		UNICEF	26								
19	Doubi Kalay		DACAAR	21	SCA	26	GAF	8				
20	Gagiza	Karim Khel	SCA	26								
21	Galay		SCA	26								
22	Ganjo Khel		SCA	26	GAF	8						
23	Garay		UNICEF	26								
24	Gazak		UNICEF	26								
25	Ghoaegeh	Ali Sher	SCA	26	GAF	8						

Appendix P: NGO activity in Hesarak district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
26	Ghogez	Alam Khel	GAF	8	SCA	26						
27	Ghogez	Sure Kalay	UNICEF	26								
28	Ghwagiza	Adam Khel	UNICEF	26								
29	Ghwagiza	Miagan	UNICEF	26								
30	Gola Khel		UNICEF	26								
31	Jaw Kan	Durali Khel	SCA	26	GAF	8						
32	Jaw Kan	Khair Abad	SCA	26	GAF	8						
33	Jaw Kan	Khanano Kalay	SCA	26								
34	Jaw Kan	Nargosey	CANADA F.	15	SCA	26						
35	Jaw Kan	Shom Kan (Shikhan)	GAF	8	SCA	26						
36	Jokan	Arab Khel	SCA	26								
37	Jokan	Ghazi Qala	SCA	26	CANADA F.	33						
38	Kaday		UNICEF	26								
39	Khanger		SCA	26	GAF	8						
40	Khomar Khel		UNICEF	26								
41	Kok Darah		SCA	26								
42	Kuz Kolala		UNICEF	26								
43	Lagagr		DACAAR	15	SCA	26						
44	Lajgar	Ghondai Kalay	SCA	26	GAF	8						
45	Langar Khel		SCA	26								
46	Langar Khel	Jabay Kalay	UNICEF	26								
47	Mayan Khel		UNICEF	26								
48	Miagan		SCA	26	GAF	8						
49	Miasahib Kala		UNICEF	26								

Appendix P: NGO activity in Hesarak district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
50	Mohammadi		UNICEF	26								
51	Naser Khel		UNICEF	26	MCPA	29						
52	Parjena		SCA	26								
53	Ragha		MDC	29	UNICEF	26	GAF	8	SCA	26	OMAR	23
54	Seyaw Bala		SCA	26	GAF	8						
55	Seyaw Payan		SCA	15	SCA	26	GAF	8				
56	Sorondu Kalay		UNICEF	26								
57	Teray		UNICEF	26								
58	Tori Khel		SCA	26	GAF	8						
59	Towda China		UNICEF	26								
60	Yaghi Band		UNICEF	26								
61	Zarif Khel		KNF	30	SCA	26						
62	Zarif Khel	Hasan Kac	SCA	26	GAF	8	OMAR	23				
63	Zarif Khel	Mossa Ghonday	SCA	26	GAF	8						
64	Zayarat Garay		UNICEF	26	MCPA	29						

No. of villages surveyed: 69

1. Agriculture
2. Agriculture/human vaccine
3. Agriculture/veterinary
4. Agriculture/veterinary/gabion
5. Agriculture/veterinary/irrigation
6. Agriculture/veterinary/road/water supply
7. Agriculture/veterinary/roads
8. Animal vaccine
9. Construction of clinic
10. Construction of intake
11. Construction of intake/bridge
12. Construction of roads
13. Construction of roads/bridge
14. Construction of roads/bridge/building
15. Construction of school
16. Construction of school/material
17. Construction of stream/bridge
18. Construction of wells
19. Construction of wells/intake
20. Construction of wells/roads
21. Cleaning of stream
22. Clinic
23. Demining
24. Horticulture
25. Human clinic
26. Human vaccine
27. Karez cleaning
28. Medicine/salary of clinic staff
29. Mine survey
30. Mosque
31. Nursery
32. Salary/teaching material
33. School
34. Stream cleaning
35. Teacher salary
36. Water supply

According to the enumerators, the displaced families might have been from neighboring districts in the province, i.e. residence of Surkh Rud, Chaparhar, and Jalalabad where the harvest have been reaped and the weather became too hot. These household may therefore have chosen Hesarak as a potential job opportunity during the harvest time and sought seasonal immigration to live in a cool/comfortable weather in the summer.

3. LAND TENURE

3.1 Cultivated Land

A total of 15,097 jeribs (3,019 ha) of arable land is cultivated annually in the surveyed area. From that, 11,452 jeribs (2,290 ha) is irrigated and 3,645 jeribs (729 hectares) is rainfed (see Table 3.1 and Appendix D).

Table 3.1: Land tenure

Land cultivated by households during one year (jerib)			Number of households who are			
Irrigated	Rainfed	Total	Only owner	Only tenant	Owner+tenant	Total households
11452	3645	15097	1458	320	834	2612

No. of villages surveyed: 69

3.2 Land Ownership

Farming is a major activity of the residents of Hesarak district and most of the people are involved in agriculture. Out of 3,265 households living in the area at the time of survey, 2,612 of them were engaged in farming activities. The survey shows that 1,458 households are land owners, 320 households are tenants, and 834 households cultivating their own land as well as renting land of other people (see Table 3.1 and Appendix D).

4. LIVESTOCK

Livestock husbandry is another major activity of the people in the surveyed area. Selling of livestock and their products is one of the main source of income for the households.

The majority (91%) of the households in the survey area owning/raising animals. Cattle, sheep and goats are the main livestock which are raised in the surveyed area. Besides, donkey, mule and camel are valuable transportation means in this area.

A total of 5,774 cattle, 9,716 sheep, 15,557 goats, 2,679 oxen, and 1,979 donkeys, 79 horses, and 109 mules and camels are reported in the whole survey area (see Table 4.1 and Appendix E).

Table 4.1: Livestock ownership

Percentage of household owning animal	Total number of animals						
	cattle	goat	sheep	donkey	horse	oxen	other
91	5774	15557	9716	1979	79	2679	109

No. of villages surveyed: 69

Other (mules and camels)

5. IRRIGATION INFRASTRUCTURES

5.1 Irrigation Sources

Stream[8] is one of the most important irrigation source of the surveyed area (55 replies). Karez[9] and spring are reported as important water sources by 23 villages each. (see Table 5.1 and Appendix F).

[8] *The reference point of the survey is the village and not the irrigation system (stream, karez or spring) which may pass through or serve more than one village.*

[9] *Subterranean canal in which a horizontal shaft from the surface is dug toward the ground-water supply (aquifer). The essentially horizontal shaft serves as a conveyance channel and can sometimes continue for up to 20 to 30km to the surface of the ground-water supply. Approximately every 20 to 50 meters, depending upon the depth , a vertical shaft (well) is dug directly down to the tunnel through which earth is removed and air, food, and general access providing to the diggers.*

Table 5.1: Sources of irrigation and condition of irrigation system

Source of irrigation (No. replied)				Status of irrigation system	
Canal/Stream	Karez	Spring	Well	Fully operational	Not fully operational
55	23	23	0	0	69

No. of villages surveyed: 69

11,452 jeribs of land in 69 villages are irrigated by stream, karez and spring. Farmers in the 69 villages cited the flow status of their water source as bellow normal and not fully operational. The survey data shows that 54% of the irrigation water was produced by streams (55 replies), 23% by karezes (23 replies) and the remaining 23% of the irrigation water was produced by springs (23 replies).

5.2 Rehabilitation Priority

Irrigation devastation is perceived as a major constraint in the way of repatriation of refugees and the main constraint in agriculture. Since agriculture is the back bone of economy in the survey area; the rehabilitation of the irrigation system and agriculture would definitely encourage the returning of refugees. Never the less, the judgment made by villagers about the flow status of irrigation water in their canals and karez indicate the necessity of its rehabilitation.

Villagers attributed reduced water flow to the poor condition of the irrigation system. Thirty three villages gave construction of the intakes as their main rehabilitation priority, 18 villages cited the reconstruction of karezes, and 11 villages replied the construction of other canal structures as main demand. Cleaning of karez, stream, spring and construction of pond have been ranked as priority number 4 while lining of water course is reported by the rest of the surveyed villages (see Table 5.2 and Appendix G).

Table 5.2: Priority ranking of the irrigation system for rehabilitation

Activities	No. of villages reported	Rank of importance
1. Construction of intake	33	1
2. Reconstruction of karez	18	2
3. Lining of water course	1	5
4. Maintenance of water course	0	0
5. Construction of other canal structures	11	3
6. Maintenance of karez	0	0
7. Others	6	4

No. of villages surveyed: 69
List of others:

1. Cleaning of spring/construction of pond
2. Cleaning of streams and karez

6. OTHER INFRASTRUCTURES

6.1 Access Road

Out of 69 surveyed villages, 10 villages have access roads which are useable by ordinary pick-up, while 42 villages have access roads which can be used by 4WD vehicles, and 17 village use only mule track (see Table 6.1 and Appendix H).

Table 6.1: Type and condition of the access roads

	Condition of the roads (No. of villages reported)		
Type of roads	Good	Fairly good	Bad
Road usable by simple pick-up	0	10	0
Road usable by 4 WD vehicles	0	19	23
Mule track	1	14	2

No. of villages surveyed: 69

The condition of roads used by ordinary vehicles reported 'fairly good' by 10 villages, the condition of road useable by 4WD vehicles 'fairly good' by 19 villages, and 'bad' by 23 villages. The condition of mule tracks cited 'good' by one village, 'fairly good' by 14 villages and 'bad' reported by 2 villages.

6.2 Drinking Water

Canal/Stream water reported as the major source of drinking water (45 replies), followed by spring (26 replies). In addition, Karez makes the other important source of drinking water in the surveyed area, 24 replies, (see Table 6.2 and Appendices I and J).

Table 6.2: Drinking water sources

Type of drinking water sources

Number of replies				Number of Private wells		Number of Public wells		Number of Diesel Water pump
Stream/ Canal	Karez	Spring	Pipe Water	Deep	Shallow	Deep	Shallow	
45	24	26	1	0	67	0	22	0

No. of villages surveyed: 69

Shallow well can be deemed another major source for the drinking water. In fact 89 private and public shallow wells are reported in the whole survey area.

Repatriation

- A total of 2,104 households have returned to the survey area, while other 947 households have never been displaced. 214 households from neighboring districts have also settled in this district. Based on the survey, over 51% of the inhabitant of the surveyed area remained as refugee in Pakistan or internally displaced. Therefore, Hesarak district still remains a potential refugee repatriation area.

Land Tenure

- A total of 15,097 jeribs (3,019 hectares) of arable land is annually cultivated, in the surveyed area. Out of that 11,452 jeribs (2,290 hectares) is irrigated and 3,645 jeribs (729 hectares) is rainfed agricultural land.

- 80% of the present households in Hesarak district are engaged in farming activities. Out of that, 56% of the households are working on their own land, 12% are only tenant and the remaining (32%) are both land owner and tenants.

Livestock

- According to the survey, an average of 91% households in the survey area were involved in the animal raising. A total of 5,774 cattle, 9,716 sheep, 15,557 goats, 2,679 oxen, and 1,979 donkeys, 79 horses, and 109 mules and camels were reported in the survey area.

Irrigation Infrastructures

- Streams, springs and karezes are the main water sources for the irrigation of the agricultural land. All villagers in the survey area had complained about the abnormality of the irrigation system and the losses which happened due to poor and/or damaged structures.

- Main problem of the inhabitants were (in order of importance) rehabilitation of the irrigation structures and reconstruction of the intake (reported by 33 villages), reconstruction of karezes (reported by 18 survey villages), and construction of other canal structures (reported by 11 villages).

Access Road

- Access road used by ordinary vehicles are available only for 14% of the surveyed villages, roads useable by 4 WD vehicle exist in 61% of the surveyed villages, and mule tracks are used as main access road (reported by 25% of the surveyed villages).

Drinking Water

- Most important drinking water sources are streams, replied by 45 villagers, followed by spring which is reported by 26 villagers and Karez is reported by 24 villagers in the surveyed area. Besides, a total of 89 private and public shallow wells are reported in the whole survey area.

Health Facilities

- A total of one clinic and 7 pharmacy centers are existed in the whole survey area. On average base, 35 patients per visiting date were receiving necessary medical treatment.

- Existing clinic is located in only one village; the other 68 villages of the survey area remain with out any medical facilities. Most of these villages (53%) were located in a distance of 10 or less than 10 kms from the health care center, some (34%) were located in a distance between 11 to 20 kms, and few (13%) were located at a distance more than 20 kms from the nearest medical center.

- A total of 7 private pharmacies are available in the survey area. These medical stores concentrated in 7 villages and other 62 villages remained without medical shops. 29% villages, without medical stores, are located in distance of less than 5 kms, some 34% villages are located in a distance of less than 10 km from the nearest medical stores, 16% of the villages located in a distance between 11 to 15 kms, and only 21% of the villages remain at a distance more than 15 km from the medical shops.

- During the interviewing with the household it was discovered that the villagers mostly rely upon the medical facilities which were available in Jalalabad city, therefore the distance marked above 15 kms is the distance of the villages from the center of Jalalabad.

Education

- A total of 8 public schools were operating in the survey area. Out of that, 6 primary and 2 secondary schools were open for boys and no schools for girls were operative. Total number of boy students attended classes were 2,050. A total of 57 male teachers were involved to teach students in these schools.

- School building like most other infrastructure edifices have been effected by the war and conflict of the past one and half decade. Of the 7 school buildings in the survey area, only 4 were found unaffected, and 3 were found completely destroyed.

The statistic figures stated above, provides information about the number of school building existed in the survey area before 1979.

Damaged Infrastructures

- Based on the survey, 50% of the drinking water systems have been damaged. Besides, 43% of school buildings, 64% of houses and 62% of the wells have been either damaged or completely destroyed.

- Interviewing with inhabitants of the survey area revealed that the reconstruction and rehabilitation of different type of structures were the immediate demand of the people. Demands have been prioritized as per needs of inhabitants. Priority number one was found to be reconstruction of the damaged or destroyed houses, second priority is construction of the well, third priority is construction of school building, fourth priority is construction of drinking water scheme and construction of health clinic is reported as fifth priority number of the villagers.

UN Agencies and NGO Activities

- A total of 9 UN Agencies and other NGOs have worked in the surveyed villages of Hesarak district. For names and activities see Appendix P.

BASELINE SURVEY OF HESARAK DISTRICT

NANGARHAR PROVINCE

JUNE 1998

Prepared For:

MADERA/DACAAR/GAA

Prepared BY:

Agency Coordinating Body for Afghan Relief
ACBAR Survey Unit

October 1998

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ABBREVIATIONS AND MEASURES

ACBAR	Agency Coordinating Body for Afghan Relief
ASU	ACBAR Survey Unit
CSO	Central Statistics Office
DACAAR	Danish Committee for Aid to Afghan Refugees
GAA	German Agro Action
GAF	German Afghanistan Foundation
IDP	Internal Displaced People
KNF	Kohi Noor Foundation
MADERA	Mission of Aid for Development of Rural Economies
MCPA	Mine Clearance Planning Agency
MDC	Mine Detection Dog Center
NGO	Non Governmental Organization
OMAR	Organization for Mine Awareness and Reconstruction
SCA	Swedish Committee for Afghanistan
UNICEF	United Nation Children Funds

J	jerib
Ha	hectare
One jerib	equal to 0.2 hectare

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The questionnaire of this survey was designed in a joint session of the ACBAR, MADERA/DACAAR/GAA, and was finalized by ASU. Thanks go to all of those who participated in designing and completion of the survey questionnaire.

M. Omar Anwarzay, ACBAR Survey Unit Manager, trained enumerators, organized the field survey and edited text and tables of the survey report. ASU Field Coordinator, Sultan Mohammad, as well as Survey Consultant, Sayed Habib, visited survey areas and supervised survey progress and carried out quick assessment of the surveyed areas. Eng. Rahimullah Rahim, Report Writer, drafted the tables and wrote this report. Marzia Wardak also cooperated in preparation of this report. Data analysis and processing were completed by Abdul Rahman, Data Analyst; Engineer Ziauddin, Assistant Data Analyst; and Khalil Rahman Haqjo. Their hard work is acknowledged.

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SUMMARY AND CONCLUSIONS

The MADERA/DACAAR/GAA, Non governmental organizations (NGOs) initiated the Baseline Survey by the Agency Coordinating Body for Afghan Relief, Survey Unit (ACBAR/ASU) to provide basic information about three districts in Nangarhar Province (Khogiani, Hesarak, Sherzad) and one district in Kunar Province (Pech). The main goal of the survey was to enable the above organizations and other development agencies to better target rehabilitation programs in Afghanistan. The survey is the most systematic attempt so far in identifying the most urgent needs to keep track of repatriation activities in particular areas inside Afghanistan.

The survey was conducted during June 1998 in order to provide baseline data about household, population and shelter status, repatriation, agricultural land, livestock, irrigation system, drinking water sources, communication means, health and education facilities and other infrastructures (see Appendix A).

This survey constitute the first stage in a great scheme. By integrated action in the field, this scheme aims to repatriate the IDPs and refugee families and identify the main development problems of the area.

The survey data were gathered on a village basis through group interview with village leaders, tribal elders, landowners, and other important and knowledgeable individuals.

The survey report is structured for ease of reference with related tables, presented with the text and relevant lists (at village level) in Appendices.

All information gathered from the field survey forms, reports and other references is sorted out for every district, separately. Hereby the information/description gathered in this specific report provide you a comprehensive information about Hesarak district (Nangarhar).

The results of the survey are as follows:

Population

- According to the survey, the total population of the 69 villages of Hesarak district is estimated 6,646 households at the survey time. Out of that, 3,265 households were living in the district, while another 3,381 households were either refugee in Pakistan or maintained as IDPs in other areas of Afghanistan. The average number of people per household was supposed to be 8, thus the total population of the survey area, presently settled, could be estimated 26,120.